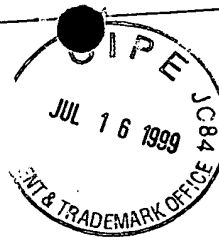


# SEQUENCE LISTING



<110> The University of Leicester

<120> Complement Inhibitor

<130> M96/0591/US

<140>

<141>

<160> 14

<170> PatentIn Ver. 2.1

<210> 1

<211> 4229

<212> DNA

<213> Rattus sp.

<400> 1

tcgagtcaac tgctcccaga tagatccaag acatgagact gtcagcaaga attatttggc 60  
 ttatattatg gactgtttgt gtagcagaag attgtaaagg tcctcctcca agagaaaatt 120  
 cagaaattct ctcaggttcg tgggtctgaac aactatatcc agaaggcact caggcaacct 180  
 acaaatgccg ccctggatag cgaacacttg gtactattgt aaaagtatgc aagaatggag 240  
 aatgggtacc ttctaaccga tcaaggatat gtccgaaaag gccatgtggg catcccggag 300  
 acacaccctt tgggtccttt aggtctggcag ttggatctga atttgaattt ggtgcaaagg 360  
 ttgtttatac atgtgatgaa ggggtaccaac tattaggtga aattgattac cgtgaatgtg 420  
 atgcagatgg gtggaccaat gatattccaa tatgtgaagt tgtgaagtgc ttgccagtga 480  
 cagaactgga gaatggaaga attgtgagtg gtgcagccga accagaccag gaatattatt 540  
 ttggacaggt ggtacgcttt gaatgcaact ccggttcaa gattgaagga cagaaagaaa 600  
 tgcactgtct ataaaatggc ctctggagca atgaaaagcc acagtgtgtg gaaatttctt 660  
 gcctgccacc acgagttgaa aatggagatg gtatatatct gaaaccagtt tacaaggaga 720  
 atgaaagatt ccaatataaa tgtaagcaag gttttgtgta caaagaaaga ggggatgctg 780  
 tctgcacggg ttctggatgg aatcctcagc ctctctgtga agaatgaca tgtttgactc 840  
 catatattcc aaatggtatc tacacacctc acaggattaa acacagaatt gatgatgaaa 900  
 tcagatatga atgtaaaaat ggcttctatc ctgcaaccgg atcacctgtt tcaaagtgtg 960  
 caattactgg ctggatccct gtcctcaagat gtagcttgaa accttgtgat ttccacaat 1020  
 tcaaacatgg acgtctgtat tatgaagaaa gccggagacc ctacttccca gtacctatag 1080  
 gaaaggagta cagctataac tgtgacaacg ggtttacaac gccttcacag tcatactggg 1140  
 actaccttcg ttgcacagta aatgggtggg agcctgaagt tccatgcctc aggcaatgta 1200  
 ttttccatta tgtggaatat ggagaatctt catactggca aagaagatat atagagggtc 1260  
 agtctgcaaa agtccagtgt cacagtggct atagtcttcc aaatgggtcaa gatacatatt 1320  
 attgtacaga gaatggcttg tcccctcctc ccaaagcgt ccgtatcaag acttgttcag 1380  
 tatcagatat agaaattgaa aatgggtttt tttctgaatc tgattataca tatgctctaa 1440  
 atagaaaaac acggtataga tgtaaacagg gatatgtaac aaataccgga gaaatatcag 1500  
 gaataattac ttgtcttcaa gatggatggt cacctcgacc ctcatgcatt aagtcttgtg 1560  
 atatgcctgt atttgagaat tctatgacta agaataataa cacatgggtt aaactcaatg 1620

RECEIVED  
TECH CENTER 1600/2300  
99 AUG 12 PM 1:50

acaaattaga ctatgaatgt cacattggat atgaaaatga atataaacat accaaaggct 1680  
 ctataacatg tacttatgat ggatgggtcta gtacaccctc ctgttatgaa agagaatgca 1740  
 gcattccctt gttacaccaa gacttagttg tttttccag agaagtaaaa tacaaagttg 1800  
 gagattcggt gagtttctct tgcggttcag gacacagagt tggagcagat ttagtgcaat 1860  
 gctaccactt tggatgggtcc cctaatttcc caacgtgtga aggccaagta aaatcatgtg 1920  
 accaacctct tgaaatcccg aatggggaaa taaagggaac aaaaaaagtt gaatacagcc 1980  
 atgggtgacgt ggtggaatat gattgcaaac ctagatttct actgaaggga cccaataaaa 2040  
 tccagtgtgt tgacgggaag tggacaagggt tgccgatatg cgttgagtat gagagaacat 2100  
 gtggagacct tcctgaactt gagcatgggt ctgtcaagtt atctgtccct ccctaccatc 2160  
 atggagattc agtggagttc acttgtacag aaaccttcac aatgattgga catgcagtag 2220  
 ttttctgcat tagtggaagg tggaccgagc ttcctcaatg tgttgcaaca gatcaactgg 2280  
 agaagtgtaa agccccgaag tcaactggca tagatgcaat tcatccaaat aagaatgaat 2340  
 ttaatcataa ctttagtgtg agttacagat gtagacaaaa gcaggagtat gaacattcaa 2400  
 tctgcatcaa tggaagatgg gatcctgaac caaactgtac aagcaaaaga ttctgccctc 2460  
 ctcccccgca gattccaaat gcccaagtga ttgaaaccac cgtgaaatac ttggatggag 2520  
 aaaaagtatc tgttctttgc caagatgggt acctaactca gggcccagaa gaaatgggtg 2580  
 gtaaacatgg aaggtggcag tcgttaccac gctgcacgga aaaaattcca tgttcccagc 2640  
 cccctaaaat tgaacatgga tctattaagt cgcccagggt ctcagaagag aggagagatt 2700  
 taattgagtc cagcagttat gaacacggaa ctacattcag ctattgctgt agagatggat 2760  
 tcaagatatc tgaagaaaat agggtaacct gcaacatggg aaaatggagc tctctgcctc 2820  
 gttgtgttgg aataccttgt ggacccccac cttcaattcc tcttggtatt gtttctcatg 2880  
 aactagaaag ttaccaatat ggagaggagg ttacatacaa ttgttctgaa ggctttggaa 2940  
 ttgatggacc agcatttatt aaatgtgtag gaggacagtg gtctgaacct cccaaatgca 3000  
 taaaaactga ttgtgacaac ttgccacat ttgaaattgc caaaccgaca gaaaagaaaa 3060  
 aaaaatcata caggtcagga gaacaagtga cattcagatg tccacctccg tatcgaatgg 3120  
 atggctctga cattgtcaca tgtgttaata cgaagtggat tggacagccg gtatgcaaag 3180  
 ataattcctg tgtgaatcca ccacatgtgc caaatgctac tatactaaca aggcaacaaga 3240  
 ctaaatatcc atctgggtgac aaagtacgtt atgactgtaa taaacctttt gaattatttg 3300  
 gggaagtgga agtgaatgac caaaacggga tttggacaga accaccgaaa tgcaaagatt 3360  
 caacaggga atgtgggcct cctccacctt ttgacaatgg agacatcacc tccttgtcat 3420  
 taccagtata tgcaccatta tcatcagttg aatatcaatg ccagaactat tatctactta 3480  
 agggaaataa gatagtaaca tgtagaaatg gaaagtgggtc tcagccacca acctgcttac 3540  
 atgcatgtgt gataccagaa gatattatgg aaaaacataa tatagttctc agatggaggg 3600  
 aaaatgcaaa gatttattcc caatcagggg agaattattga attcatgtgt aaacctggat 3660  
 atagaaaatt cagaggatca cctccgtttc gtacaaagtg cattgaggggt cacatcaatt 3720  
 atcccacttg tgtataaaat cgctatacaa ttattagtaa accttatgga tgagaaatgc 3780  
 acatgtatat tactaataca gtttgaattt acatttaaat attgtttagc tcatttcctc 3840  
 taataagtat ataaactttt tttatatggg gggttaatcag taactttaca gactgttgcc 3900  
 acaaagcaag aacattacat tcaaaaactcc taatccaaat atgatatgtc caaggacaaa 3960  
 ctatgtctaa gcaagaaaat aaatgttagt tcttcaatgt ctgtttttat tcaggacctt 4020  
 tcagattttc ttggatacct tttgttaggt tctgattcac agtgagtgga agacacactg 4080  
 actctgactt caaattagta ttacttgcaa tacattaaca accaaactat cataatatca 4140  
 caaatgtata cagctaatta ctgtgtccta cctttgtatc aataaagaaa tctaagaaag 4200  
 ttcttgctta aaaaaaaaaa aaaaaaaaaa 4229

<210> 2

<211> 866

<212> DNA

<213> Rattus sp.

<400> 2

tcgagtcaac tgctcccaga tagatccaag acatgagact gtcagcaaga attatttggc 60  
ttatattatg gactgtttgt gtagcagaag attgtaaagg tcctcctcca agagaaaatt 120  
cagaaattct ctcaggttcg tggctctgaac aactatattc agaaggcact caggcaacct 180  
acaaatgccg ccctgggatac cgaacacttg gtactattgt aaaagtatgc aagaatggag 240  
aatgggtacc ttctaaccga tcaaggatat gtcggaaaag gccatgtggg catcccggag 300  
acacaccctt tgggtccttt aggctggcag ttggatctga atttgaattt ggtgcaaagg 360  
ttgtttatac atgtgatgaa gggtagcaac tattaggtga aattgattac cgtgaatgtg 420  
atgcagatgg gtggaccaat gatattccaa tatgtgaagt tgtgaagtgc ttgccagtga 480  
cagaactgga gaatggaaga attgtgagtg gtgcagccga accagaccag gaatattatt 540  
ttggacaggt ggtacgcttt gaatgcaact ccggcttcaa gattgaagga cagaaagaaa 600  
tgcactgctc ataaaatggc ctctggagca atgaaaagcc acagtgtgtg gaaatttctt 660  
gcctgccacc acgagttgaa aatggagatg gatataaaaa attcagagga tcacctccgt 720  
ttcgtacaaa gtgcattgag ggtcacatca attatcccac ttgtgtataa aatcgctata 780  
caattattag taaaccttat ggatgacact ttgtttagaa atgcacatgt atattactaa 840  
tacagtttga atttacattt gaaaaa 866

<210> 3

<211> 2715

<212> DNA

<213> Rattus sp.

<400> 3

C!  
tcgagtcaac tgctcccaga tagatccaag acatgagact gtcagcaaga attatttggc 60  
ttatattatg gactgtttgt gtagcagaag attgtaaagg tcctcctcca agagaaaatt 120  
cagaaattct ctcaggttcg tggctctgaac aactatattc agaaggcact caggcaacct 180  
acaaatgccg ccctgggatac cgaacacttg gtactattgt aaaagtatgc aagaatggag 240  
aatgggtacc ttctaaccga tcaaggatat gtcggaaaag gccatgtggg catcccggag 300  
acacaccctt tgggtccttt aggctggcag ttggatctga atttgaattt ggtgcaaagg 360  
ttgtttatac atgtgatgaa gggtagcaac tattaggtga aattgattac cgtgaatgtg 420  
atgcagatgg gtggaccaat gatattccaa tatgtgaagt tgtgaagtgc ttgccagtga 480  
cagaactgga gaatggaaga attgtgagtg gtgcagccga accagaccag gaatattatt 540  
ttggacaggt ggtacgcttt gaatgcaact ccggcttcaa gattgaagga cagaaagaaa 600  
tgcactgctc ataaaatggc ctctggagca atgaaaagcc acagtgtgtg ttgaaacctt 660  
gtgattttcc acaattcaaa catggacgtc tgtattatga agaaagccgg agaccctact 720  
tcccagtacc tataggaaaag gtagtacgct ataactgtga caacgggttt acaacgcctt 780  
cacagtcata ctgggactac cttcgttgca cagtaaatgg gtgggagcct gaagttccat 840  
gcctcaggca atgtattttc cattatgtgg aatatggaga atcttcatac tggcaaagaa 900  
gatatataga gggtcagtct gcaaaaagtc agtgtcacag tggctatagt cttccaaatg 960  
gtcaagatac atattattgt acagagaatg gctgggtccc tcctcccaaa tgcgtccgta 1020  
tcaagacttg ttcagtatca gatataaaaa ttgaaaatgg gtttttttct gaattctgatt 1080  
atacatatgc tctaaataga aaaacacggg atagatgtaa acagggatat gtaacaaata 1140  
ccggagaaat atcaggaata attacttgtc ttcaagatgg atgggtcacct cgaccctcat 1200  
gcattaagtc ttgtgatatg cctgtatttg agaattctat gactaagaat aataacacat 1260

gggtttaaact caatgacaaa ttagactatg aatgtcacat tggatatgaa aatgaatata 1320  
 aacataccaa aggctctata acatgtactt atgatggatg gtctagtaca ccctcctgtt 1380  
 atgaaagaga atgcagcatt cccctgttac accaagactt agttgttttt cccagagaag 1440  
 taaaatacaa agttggagat tcgttgagtt tctcttgccg ttcaggacac agagttggag 1500  
 cagatttagt gcaatgctac cactttggat ggtcccctaa tttcccaacg tgtgaaggcc 1560  
 aagtaaaatc atgtgaccaa cctcttgaaa tcccgaatgg ggaaataaag ggaacaaaaa 1620  
 aagttgaata cagccatggg gacgtgggtg aatatgattg caaacctaga tttctactga 1680  
 agggacccaa taaaatccag tgtgttgacg ggaagtggac aaggttgccg atatgcgttg 1740  
 agtatgagag aacatgtgga gaccttcctg aacttgagca tggctctgtc aagtatctg 1800  
 tccctcccta ccatcatgga gattcagtgg agttcactg tacagaaacc ttcacaatga 1860  
 ttggacatgc agtagttttc tgcattagtg gaaggtggac cgagcttcct caatgtgttg 1920  
 caacagatca actggagaag tgtaaagccc cgaagtcaac tggcatagat gcaattcatc 1980  
 caaataagaa tgaatttaaat cataacttta gtgtgagtta cagatgtaga caaaagcagg 2040  
 agtatgaaca ttcaatctgc atcaatggaa gatgggatcc tgaaccaaac tgtacaagca 2100  
 aaagattctg ccctcctccc ccgcagattc caaatgccca agtgattgaa accaccgtga 2160  
 aatacttgga tggagaaaaa gtatctgttc tttgccaaga tggttaccta actcagggcc 2220  
 cagaagaaat ggtgtgtaaa catggaaggt ggcagtcgtt accacgtgc acggaaaaaa 2280  
 ttccatgttc ccagccccct aaaattgaac atggatctat taagtcgccc aggtcctcag 2340  
 aagagaggag agatttaatt gagtccagca gttatgaaca cggaactaca ttcagctatt 2400  
 gctgtagaga tggattcaag atatctgaag aaaatagggg aacctgcaac atgggaaaaa 2460  
 ggagctctct gcctcgttgt gttggaatac cttgtggacc cccacctca attcctcttg 2520  
 gtattgtttc tcatgaacta gaaagttacc aatatggaga ggaggttaca tacaattgtt 2580  
 ctgaaggctt tggaattgat ggaccagcat ttattaaatg tgtaggagga cagtggctctg 2640  
 aacctcccaa atgcataaaa actgattgtg acaacttgcc cacatttgaa attgccaac 2700  
 cgacagaaaa gaaaa 2715

<210> 4

<211> 1532

<212> DNA

<213> Rattus sp.

<400> 4

tcgagtcaac tgctcccaga tagatccaag acatgagact gtcagcaaga attatttggc 60  
 ttatattatg gactgtttgt gtagcagaag attgtaaagg tcctcctcca agagaaaatt 120  
 cagaaattct ctcaggttcg tgggtctgaac aactatattc agaaggcact caggcaacct 180  
 acaaatgccg ccctggatag cgaacacttg gtactattgt aaaagtatgc aagaatggag 240  
 aatgggtacc ttctaacca tcaaggatat gtcggaaaag gccatgtggg catcccggag 300  
 acacaccctt tgggtccttt aggtggcag ttggatctga atttgaattt ggtgcaaagg 360  
 ttgtttatac atgtgatgaa gggtagcaac tattaggtga aattgattac cgttatcgaa 420  
 tggatggctc tgacattgtc acatgtgtta atacgaagtg gattggacag ccggtatgca 480  
 aagataattc ctgtgtgaat ccaccacatg tgccaaatgc tactatacta acaaggcaca 540  
 agactaaata tccatctggg gacaaagtac gttatgactg taataaacct tttgaattat 600  
 ttggggaagt ggaagtgatg tgccaaaacg ggatttggac agaaccaccg aaatgcaaag 660  
 attcaacagg gaaatgtggg cctcctccac ctattgacaa tggagacatc acctccttgt 720  
 cattaccagt atatgcacca ttatcatcag ttgaatatca atgccagaac tattatctac 780  
 ttaagggaaa taagatagta acatgtagaa atggaaagtg gtctcagcca ccaacctgct 840  
 tacatgcatg tgtgatacca gaagatatta tggaaaaaca taatatagtt ctcagatgga 900

gggaaaatgc aaagatttat tcccaatcag gggagaatat tgaattcatg tgtaaacctg 960  
 gatatagaaa attcagagga tcacctcgt ttcgtacaaa gtgcattgag ggtcacatca 1020  
 attatccac ttgtgtataa aatcgctata caattattag taaaccttat ggatgagaaa 1080  
 tgcacatgta tattactaat acagtttgaa ttacattta aatattgttt agctcatttc 1140  
 ctctaataag tatataaact ttttttatat ggtgggtaat cagtaacttt acagactggt 1200  
 gccacaaagc aagaacatta cattcaaac tcctaattcca aatatgatat gtccaaggac 1260  
 aaactatgtc taagcaagaa aataaatgtt agttcttcaa tgtctgtttt tattcaggac 1320  
 ctttcagatt ttcttgata ctttttgta ggttctgatt cacagtgagt ggaagacaca 1380  
 ctgactctga cttcaaatta gtattacttg caatacatta acaaccaaac tatcataata 1440  
 tcacaaatgt atacagctaa ttactgtgtc ctaccttgt atcaataaag aaatctaaga 1500  
 aagttcttgc ttaaaaaaaaa aaaaaaaaaa aa 1532

<210> 5  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:Oligonucleotide  
 primer

<400> 5  
 ttcaagtaac gttagaagct taagatg 27

<210> 6  
 <211> 33  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:Oligonucleotide  
 primer

<400> 6  
 ggcgccgct caaatcttct gagatatagg aga 33

<210> 7  
 <211> 33  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:Oligonucleotide  
 primer

<400> 7  
ggcggccgct catttaatcc ttaaaggtga gta

33

<210> 8  
<211> 33  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Oligonucleotide  
primer

<400> 8  
ggcggccgct catactggaa agtatggtct acg

33

<210> 9  
<211> 207  
<212> PRT  
<213> Homo sapiens

<400> 9  
Glu Asp Cys Asn Glu Leu Pro Pro Arg Arg Asn Thr Glu Ile Leu Thr  
1 5 10 15  
Gly Ser Trp Ser Asp Gln Thr Tyr Pro Glu Gly Thr Gln Ala Ile Tyr  
20 25 30  
Lys Cys Arg Pro Gly Tyr Arg Ser Leu Gly Asn Val Ile Met Val Cys  
35 40 45  
Arg Lys Gly Glu Trp Val Ala Leu Asn Pro Leu Arg Lys Cys Gln Lys  
50 55 60  
Arg Pro Cys Gly His Pro Gly Asp Thr Pro Phe Gly Thr Phe Thr Leu  
65 70 75 80  
Thr Gly Gly Asn Val Phe Glu Tyr Gly Val Lys Ala Val Tyr Thr Cys  
85 90 95  
Asn Glu Gly Tyr Gln Leu Leu Gly Glu Ile Asn Tyr Arg Glu Cys Asp  
100 105 110  
Thr Asp Gly Trp Thr Asn Asp Ile Pro Ile Cys Glu Val Val Lys Cys  
115 120 125  
Leu Pro Val Thr Ala Pro Glu Asn Gly Lys Ile Val Ser Ser Ala Met

130	135	140
Glu Pro Asp Arg Glu Tyr His Phe Gly Gln Ala Val Arg Phe Val Cys		
145	150	155 160
Asn Ser Gly Tyr Lys Ile Glu Gly Asp Glu Glu Met His Cys Ser Asp		
	165	170 175
Asp Gly Phe Trp Ser Lys Glu Lys Pro Lys Cys Val Glu Ile Ser Cys		
	180	185 190
Lys Ser Pro Asp Val Ile Asn Gly Ser Pro Ile Ser Gln Lys Ile		
	195	200 205

<210> 10  
 <211> 265  
 <212> PRT  
 <213> Homo sapiens

<400> 10

Glu Asp Cys Asn Glu Leu Pro Pro Arg Arg Asn Thr Glu Ile Leu Thr
1 5 10 15
Gly Ser Trp Ser Asp Gln Thr Tyr Pro Glu Gly Thr Gln Ala Ile Tyr
20 25 30
Lys Cys Arg Pro Gly Tyr Arg Ser Leu Gly Asn Val Ile Met Val Cys
35 40 45
Arg Lys Gly Glu Trp Val Ala Leu Asn Pro Leu Arg Lys Cys Gln Lys
50 55 60
Arg Pro Cys Gly His Pro Gly Asp Thr Pro Phe Gly Thr Phe Thr Leu
65 70 75 80
Thr Gly Gly Asn Val Phe Glu Tyr Gly Val Lys Ala Val Tyr Thr Cys
85 90 95
Asn Glu Gly Tyr Gln Leu Leu Gly Glu Ile Asn Tyr Arg Glu Cys Asp
100 105 110
Thr Asp Gly Trp Thr Asn Asp Ile Pro Ile Cys Glu Val Val Lys Cys
115 120 125
Leu Pro Val Thr Ala Pro Glu Asn Gly Lys Ile Val Ser Ser Ala Met
130 135 140

Glu Pro Asp Arg Glu Tyr His Phe Gly Gln Ala Val Arg Phe Val Cys  
 145 150 155 160

Asn Ser Gly Tyr Lys Ile Glu Gly Asp Glu Glu Met His Cys Ser Asp  
 165 170 175

Asp Gly Phe Trp Ser Lys Glu Lys Pro Lys Cys Val Glu Ile Ser Cys  
 180 185 190

Lys Ser Pro Asp Val Ile Asn Gly Ser Pro Ile Ser Gln Lys Ile Ile  
 195 200 205

Tyr Lys Glu Asn Glu Arg Phe Gln Tyr Lys Cys Asn Met Gly Tyr Glu  
 210 215 220

Tyr Ser Glu Arg Gly Asp Ala Val Cys Thr Glu Ser Gly Trp Arg Pro  
 225 230 235 240

Leu Pro Ser Cys Glu Glu Lys Ser Cys Asp Asn Pro Tyr Ile Pro Asn  
 245 250 255

Gly Asp Tyr Ser Pro Leu Arg Ile Lys  
 260 265

<210> 11

<211> 329

<212> PRT

<213> Homo sapiens

<400> 11

Glu Asp Cys Asn Glu Leu Pro Pro Arg Arg Asn Thr Glu Ile Leu Thr  
 1 5 10 15

Gly Ser Trp Ser Asp Gln Thr Tyr Pro Glu Gly Thr Gln Ala Ile Tyr  
 20 25 30

Lys Cys Arg Pro Gly Tyr Arg Ser Leu Gly Asn Val Ile Met Val Cys  
 35 40 45

Arg Lys Gly Glu Trp Val Ala Leu Asn Pro Leu Arg Lys Cys Gln Lys  
 50 55 60

Arg Pro Cys Gly His Pro Gly Asp Thr Pro Phe Gly Thr Phe Thr Leu  
 65 70 75 80



Thr Gly Gly Asn Val Phe Glu Tyr Gly Val Lys Ala Val Tyr Thr Cys  
85 90 95

Asn Glu Gly Tyr Gln Leu Leu Gly Glu Ile Asn Tyr Arg Glu Cys Asp  
100 105 110

Thr Asp Gly Trp Thr Asn Asp Ile Pro Ile Cys Glu Val Val Lys Cys  
115 120 125

Leu Pro Val Thr Ala Pro Glu Asn Gly Lys Ile Val Ser Ser Ala Met  
130 135 140

Glu Pro Asp Arg Glu Tyr His Phe Gly Gln Ala Val Arg Phe Val Cys  
145 150 155 160

Asn Ser Gly Tyr Lys Ile Glu Gly Asp Glu Glu Met His Cys Ser Asp  
165 170 175

Asp Gly Phe Trp Ser Lys Glu Lys Pro Lys Cys Val Glu Ile Ser Cys  
180 185 190

Lys Ser Pro Asp Val Ile Asn Gly Ser Pro Ile Ser Gln Lys Ile Ile  
195 200 205

Tyr Lys Glu Asn Glu Arg Phe Gln Tyr Lys Cys Asn Met Gly Tyr Glu  
210 215 220

Tyr Ser Glu Arg Gly Asp Ala Val Cys Thr Glu Ser Gly Trp Arg Pro  
225 230 235 240

Leu Pro Ser Cys Glu Glu Lys Ser Cys Asp Asn Pro Tyr Ile Pro Asn  
245 250 255

Gly Asp Tyr Ser Pro Leu Arg Ile Lys His Arg Thr Gly Asp Glu Ile  
260 265 270

Thr Tyr Gln Cys Arg Asn Gly Phe Tyr Pro Ala Thr Arg Gly Asn Thr  
275 280 285

Ala Lys Cys Thr Ser Thr Gly Trp Ile Pro Ala Pro Arg Cys Thr Leu  
290 295 300

Lys Pro Cys Asp Tyr Pro Asp Ile Lys His Gly Gly Leu Tyr His Glu  
305 310 315 320

Asn Met Arg Arg Pro Tyr Phe Pro Val  
325

<210> 12  
<211> 32  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Oligonucleotide  
primer

<400> 12  
cctcctcctg gaaatgtag aagcttaaga tg 32

<210> 13  
<211> 29  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Oligonucleotide  
primer

<400> 13  
cctctagatt acttgatagc gacgcattt 29

<210> 14  
<211> 428  
<212> PRT  
<213> Rattus sp.

<400> 14  
Glu Asp Cys Lys Gly Pro Pro Pro Arg Glu Asn Ser Glu Ile Leu Ser  
1 5 10 15  
Gly Ser Trp Ser Glu Gln Leu Tyr Ser Glu Gly Thr Gln Ala Thr Tyr  
20 25 30  
Lys Cys Arg Pro Gly Tyr Arg Thr Leu Gly Thr Ile Val Lys Val Cys  
35 40 45  
Lys Asn Gly Glu Trp Val Pro Ser Asn Pro Ser Arg Ile Cys Arg Lys  
50 55 60  
Arg Pro Cys Gly His Pro Gly Asp Thr Pro Phe Gly Ser Phe Arg Leu  
65 70 75 80

Ala Val Gly Ser Glu Phe Glu Phe Gly Ala Lys Val Val Tyr Thr Cys	85	90	95
Asp Glu Gly Tyr Gln Leu Leu Gly Glu Ile Asp Tyr Arg Glu Cys Asp	100	105	110
Ala Asp Gly Trp Thr Asn Asp Ile Pro Ile Cys Glu Val Val Lys Cys	115	120	125
Leu Pro Val Thr Glu Leu Glu Asn Gly Arg Ile Val Ser Gly Ala Ala	130	135	140
Glu Pro Asp Gln Glu Tyr Tyr Phe Gly Gln Val Val Arg Phe Glu Cys	145	150	155
Asn Ser Gly Phe Lys Ile Glu Gly Gln Lys Glu Met His Cys Ser Glu	165	170	175
Asn Gly Leu Trp Ser Asn Glu Lys Pro Gln Cys Val Glu Ile Ser Cys	180	185	190
Leu Pro Pro Arg Val Glu Asn Gly Asp Gly Ile Tyr Leu Lys Pro Val	195	200	205
Tyr Lys Glu Asn Glu Arg Phe Gln Tyr Lys Cys Lys Gln Gly Phe Val	210	215	220
Tyr Lys Glu Arg Gly Asp Ala Val Cys Thr Gly Ser Gly Trp Asn Pro	225	230	235
Gln Pro Ser Cys Glu Glu Met Thr Cys Leu Thr Pro Tyr Ile Pro Asn	245	250	255
Gly Ile Tyr Thr Pro His Arg Ile Lys His Arg Ile Asp Asp Glu Ile	260	265	270
Arg Tyr Glu Cys Lys Asn Gly Phe Tyr Pro Ala Thr Arg Ser Pro Val	275	280	285
Ser Lys Cys Thr Ile Thr Gly Trp Ile Pro Ala Pro Arg Cys Ser Leu	290	295	300
Lys Pro Cys Asp Phe Pro Gln Phe Lys His Gly Arg Leu Tyr Tyr Glu	305	310	315
Glu Ser Arg Arg Pro Tyr Phe Pro Val Pro Ile Gly Lys Glu Tyr Ser	325	330	335

Tyr Tyr Cys Asp Asn Gly Phe Thr Thr Pro Ser Gln Ser Tyr Trp Asp  
340 345 350

Tyr Leu Arg Cys Thr Val Asn Gly Trp Glu Pro Glu Val Pro Cys Leu  
355 360 365

Arg Gln Cys Ile Phe His Tyr Val Glu Tyr Gly Glu Ser Ser Tyr Trp  
370 375 380

C/ Gln Arg Arg Tyr Ile Glu Gly Gln Ser Ala Lys Val Gln Cys His Ser  
385 390 395 400

Gly Tyr Ser Leu Pro Asn Gly Gln Asp Thr Tyr Tyr Cys Thr Glu Asn  
405 410 415

Gly Trp Ser Pro Pro Pro Lys Cys Val Arg Ile Lys  
420 425

---